

PCB CNC Routing Machine Datasheet

R12 R14 and R16 routing series with the planer type router and the combined drilling and routing platform.



Model Overview

Model	Spindles	Z Axes	Table Size	Typical Use
R12 R12K R12KT	2	1	680mm×730mm	Small batch board routing
R14 R14K R14KT	4	1	520mm×650mm	General production routing
R16 R16K	6	3	580mm×730mm	Volume batch routing for output rate
LMR12A LMR12B	Customized	Customized	Customized	Planer type customized machine
DR11 DR12 DR14	Customized	Customized	Customized	High precision drilling and routing

2 Heads PCB CNC Routing Machine

Model R12 / R12K / R12KT



Two head routing machine for small batch board routing. A bigger size table can be supplied to suit your panel format.

Features

- Customized to the panel format you actually run
- Cost effective two spindle layout
- Steady cutting behaviour on profile and slot work
- Easy going operation interface

Specifications

Item	Parameters
Number of Z axis	1
Number of Spindles	2
Processing Area of Each Axis	680mm×730mm
XYZ axis Movement Area	700mm×825mm×55mm
Drilling Diameter	0.5- 6.35mm
Routing Diameter	0.6- 6.35mm
XY axis max movement speed	28/min
Z axis max movement speed	25/min
Positioning Accuracy	±0.01mm
Repeatability Accuracy	±0.005mm
Routing Accuracy	±0.05mm
Power Supply Requirement	3PH-AC380V+PE 50/60Hz 4KVA
Compressed Air Requirement	0.7-0.8MPa
Cooling Water Temperature	18 -25
Working Condition Temperature	20 -25
Humidity	50%-75%

4 Heads PCB CNC Routing Machine

Model R14 / R14K / R14KT



Four head routing machine independently developed by DLCNC for steady production routing of circuit boards.

Features

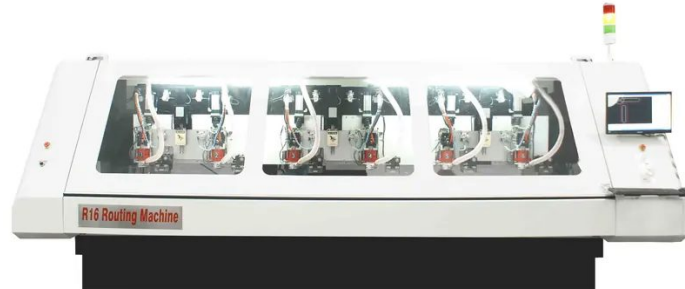
- Customized table and tool count
- Cost effective four spindle output
- Steady cut quality across all four stations
- Easy going operation interface

Specifications

Item	Parameters
Number of Z axis	1
Number of Spindles	4
Processing Area of Each Axis	520mm×650mm
XYZ axis Movement Area	700mm×825mm×55mm
Drilling Diameter	0.5- 6.35mm
Routing Diameter	0.6- 6.35mm
XY axis max movement speed	28/min
Z axis max movement speed	25/min
Positioning Accuracy	±0.01mm
Repeatability Accuracy	±0.005mm
Routing Accuracy	±0.05mm
Power Supply Requirement	3PH-AC380V+PE 50/60Hz 4KVA
Compressed Air Requirement	0.7-0.8MPa
Cooling Water Temperature	18 -25
Working Condition Temperature	20 -25
Humidity	50%-75%

6 Heads PCB CNC Routing Machine

Model R16 / R16K



Six head routing machine for volume batch board routing. It is the model chosen when the routing station has to keep pace with the rest of the line.

Features

- Six spindles across three independent Z axes
- Customized table sizes including 630mm by 830mm and 650mm by 830mm builds
- Steady cutting at 35m/min XY feed
- Easy going operation interface

Specifications

Item	Parameters
Number of Z axis	3
Number of Spindles	6
Processing Area of Each Axis	580mm×730mm
Drilling Diameter	0.5- 6.35mm
Routing Diameter	0.6- 6.35mm
XY axis max movement speed	35/min
Positioning Accuracy	±0.01mm
Repeatability Accuracy	±0.005mm
Routing Accuracy	±0.05mm
Power Supply Requirement	3PH-AC380V+PE 50/60Hz 4KVA
Compressed Air Requirement	0.7-0.8MPa
Cooling Water Temperature	18 -25
Working Condition Temperature	20 -25
Humidity	50%-75%

Planer Type PCB Router Machine

Model LMR12A / LMR12B



Planer type customized machine built on a full granite mechanical frame with a DLCNC self owned control system.

Configuration

- XYZ axis imported AC servo
- Imported high precision ball screw and linear square rails
- Full granite mechanical frame
- Self owned control system

Features

- Tool cassette beside the spindle for easy tool pick up
- 66pcs tool capacity for one spindle adjusted per customer requirement
- Tool length checked automatically
- Automatic water recycling cooling system with thermal monitoring to keep the spindles working safely
- Automatic memory of the original point of the programme
- A complete set of displacement restriction protection for hardware and software
- Overheat overload and overcurrent protection system

CNC PCB Drilling Routing Machine

Model DR11 / DR12 / DR14



The PCB CNC drilling and routing machine focuses on offering a high precision drilling and routing choice on one platform. This model is equipped with a CCD camera or depth control function.

Features

- Customized build
- High precision drilling and routing on one platform
- CCD camera option
- Depth control option

Utilities and Environment

Power supply cooling water compressed air room temperature and humidity requirements are listed in each specification table. Confirm them against the installation site before shipment.